

AXON' : complete solutions for MIL-STD-1553 Bus network



AXON' CABLE which is EN 9100 approved, designs and manufactures all components (cables, couplers, connectors,...) useful for data transmission systems in compliance with the MIL-STD-1553 standard. These transmission networks offer high security of data and signal integrity. This is the protocol of dialogue for strategic on-board systems for aeronautics, space and military applications.

From the cable to the connector

AXON' Data Bus harnesses are made with screened twisted-pair cables. They ensure good EMI protection. Data Bus harnesses also integrate couplers.

AXON' offers different types of couplers : in-line couplers, dismantlable couplers, rackable couplers and relay couplers.

In-line couplers are an excellent weight/price compromise. Dismantlable couplers make the junction between several sub-systems. Easy to use, they are an ideal solution to prototype manufacture. Rackable couplers fit to the existing fixation system. They particularly meet the requirements of aeronautics standard racks in civil and military aircraft.

Relay couplers allow disconnected devices to be driven without affecting the other remote terminals. This is the case for example when the test bench on the ground is connected to an aircraft.

AXON' also offers a range of connectors easy to crimp for MIL-STD-1553 Data Bus assemblies.

From the design to the validation

- Validation and topology: from the design, AXON' can carry out the study of the topology of the transmission network. The company owns calculating means to simulate the working of the bus assembly. The results are then often validated with a mock up.

- Manufacturing workshop under the CNES control (French National Centre for Space Studies).

- High quality and validation: all the assemblies are tested on an automatic test bench. This test bench has been designed by AXON'. AXON' can also offer a portable test bench, useful for its customers when integrating assemblies in aircraft.

International programmes

The company has been selected to design and manufacture in series MIL-STD-1553 networks for programmes such as Ariane 5, EFA, ATV, TIGER, A400M,ISS, COLUMBUS, EUROSTAR3000, etc.

About AXON' CABLE

AXON' CABLE is a French group employing 1900 staff worldwide. The company specialises in the design and manufacture of precision conductors, high tech cables and harnesses for markets such as aeronautics, space, automotive, military and medical, etc.

The head office is located in the Champagne region. The group has around 17 companies in France and worldwide. Its consolidated turnover amounted to 99 million Euro in 2007. 60 % of sales are achieved in export.

CONTACT : SANDRINE HERMANT

TEL. : +33 3 26 81 71 41

FAX : +33 3 26 81 70 80

e-mail : sa.hermant@axon-cable.com

AXON' CABLE SAS
ROUTE DE CHALONS EN CHAMPAGNE
51210 MONTMIRAIL - FRANCE
WEB : <http://www.axon-cable.com>

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